

PATENT ABSTRACTS OF JAPAN

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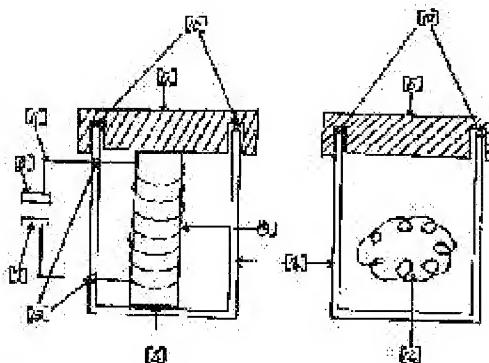
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(54) MARINE EARTH OF SEA BOTTOM IMPROVER CAPABLE OF CHANGING TO FISH REEF

(57)Abstract:

PURPOSE: To provide a method for quickening adhesion of seaweeds and shellfishes to a marine earth and propagating seaweeds, peeling and dropping the marine earth in a state in which seaweeds and shellfishes are rooted when a definite period elapses and rooting these marine organisms onto the sea bottom.



CONSTITUTION: Coal ash is blended with coal powder, plaster, cement, steel chip, aluminum chip, aluminum powder, iron powder, charcoal, active carbon, wood waste, salt and water to prepare a mixture 12. Steel pipes and round rods are fitted into a frame mold to form a skeleton. At this time, a permanent magnet 8 is fastened to the round rod by a steel wire. A tape is stretched to the top of steel and steel can when it exceeds 1m. The mixture 12 is fitted thereinto and a steel can and an aluminum can 4 having lids are fitted into the center part of the can body and aluminum powder, iron powder, coal, magnesium, yellow phosphorus, copper powder, manganese dioxide, quick lime, coke powder, zinc powder are fitted into the interior of the can and the can is covered with a lid. A coil 9 is wound around the permanent magnet 8 in other can and the can is covered with a lid and insulated and protected from water and electrode wire is taken out of the can and the wire is connected to electrode plates 6 and 7.

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CLAIMS

[Claim(s)]

[Claim 1](1) According to depth of water and geographical feature, geology, a current, depth of water, water pressure, and water quality, size of shape and adjustment of construction material can be performed.

(2) Intensity of a main part can also be adjusted in the amount of construction material inserted in inside.

(3) Provide a small hole in main part outside central part slippage, length, width, and a right-and-left oblique direction with a steel pipe and a steel can, and an aluminum can.

(4) Fill in paper and a cotton bag aluminum powder, iron powder, charcoal, and active carbon powder (thing which carried out the roast of a tire and the polyethylene) at a small hole, insert in a permanent magnet, and carry out a wooden plug.

(5) inserting steel in a center section in a main part, inserting in aluminum powder, charcoal powder, magnesium, white phosphorus, copper powder, manganese dioxide, quicklime, iron powder, a coke breeze, zinc dust, and a permanent magnet in an aluminum can, and covering -- a waterproof tape and a bond -- weld and carry out solder.

(6) In a steel can and an aluminum can, an insulating copper wire coil is twisted around a permanent magnet, carry out insulating water proof, take out an electrode on the outside of a can, and attach to a copper plate and a brass plate at the end at another can. Another side is connected to a griddle, an aluminum board, and a zinc plate.

A polar plate is wrapped in to inside which kneaded wheat flour into a stiff dough with water.

(7) Inside, in the case of 1 meters or more of main parts, bundle a steel rod and a permanent magnet with wire, and it constructs a framework.

(8) coal ash, coal dust, gypsum fibrosum, cement, a steel chip, an aluminum chip, aluminum powder, iron powder, charcoal, activated carbon, saw dust, a shell, sand, sludge, pottery powder, chaff, a salt, and water -- come out, mix and harden.

(9) Usually, make circle type-like the 6th page into a flat surface, and small holes are each nine fields. In the case of 50 cm or less, it is made into 5 cm in inside diameter of a 6th page small hole. A number and a size of a small hole also change geographical feature, geology, water quality, depth of water, water pressure, current *****, construction material, and an outside to a square type and a round shape.

It is characterized by the above thing. A submarine improving agent marine ground which changes to a fish reef

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001][Field of the Invention] This invention uses industrial waste and the garbage of an ordinary home effectively, as resources, it utilizes, and it purifies Lynn in the sewage of an ordinary home and a company, nitrogen, and ammonia, and prevents red tide. A weak electrode, a magnetic pole, and mineral resources are generated, and it breeds actively by building a weak magnetic field and drawing a microorganism (bacteria) near all over sea water, and by a photosynthetic activity, seaweed is bred and proliferated early and it becomes a nutrient of seaweed, and a plankton fishery product and a shrimp, and a crab are drawn near, and are bred. Adhesion of seaweed and shellfish is brought forward. when a certain fixed stage came, seaweed and a shellfish rooted -- often make it weak, crack-erode, and carry out the chemical reaction of the main part, solve it in electric corrosion, erosion, cunning, a microbial degradation operation and chemical action, and a deliquescent operation, separate and fall to the seabed, and it is made to root in the seabed, and increases, and a fish is drawn near and bred. sea water -- purification -- and red tide prevention is activated and carried out. An installation pile is easy, when it enters all over sea water, it becomes weak and there is also little breakage of a fishing net. The food chain operation in sea water is helped.

[0002]He was hateful and the duty of a fish reef and a speculator was also short, cost was also attached highly, and remained [seaweed and a fishery product adhered,] forever, and the art of the [Description of the Prior Art] former was spending time and effort on breakage of a fishing net, installation, and a pile. In large quantities, when it was used, it was referred to as one of the marine causes of contamination.

[0003][Problem(s) to be Solved by the Invention] -- this artificer abolishes the fault -- a manufacturing cost -- it works simply by making it cheap. All over sea water, generate mineral resources and an electrode, and a magnetic pole, and a microorganism and plankton are drawn near, It separates and falls, made seaweed adhere early, carried out propagation

growth by the photosynthetic activity, made seaweed and a fishery product adhere, made a main part weak by cunning, erosion, electric corrosion, and chemical action, and rooted seaweed and a fishery product, and is made to root in the seabed. A main part purifies sea water, red tide is prevented, the food chain operation in sea water is helped, and a main part is the feature which returns automatically.

[0004][The means for solving a technical problem] As a result, it mixes with coal dust, coal ash, gypsum fibrosum, cement, a steel chip, aluminum chip aluminum powder, iron powder, charcoal, activated carbon (thing which used tire and polyethylene as roast powder) saw dust, a shell, sand, sludge, chaff, a salt, and water, and a mixture is built. In the case of 1 m or more of main parts, a framework is built in a main part. A steel pipe and a round bar are inserted in and a permanent magnet is fastened with wire. Aluminum powder, charcoal powder, magnesium, quicklime, iron powder, a coke breeze, zinc dust, white phosphorus, copper powder, manganese dioxide, and a permanent magnet are inserted in in a steel can with a base lid, and an aluminum can, a central housing part is covered, and it waterproofs. Into another can, an insulating copper wire coil is twisted around a magnet, insulating water proof is carried out, it covers, an electrode wire is taken out on the outside of a can, and it connects with a copper plate and a brass plate. It connects with another side at a griddle, aluminum, and a zinc plate. A polar plate is inserted in the inside which kneaded wheat flour into a stiff dough with water. A small hole is provided in a central housing part and every direction, and a right-and-left oblique direction, into it, aluminum powder, iron powder, charcoal, zinc dust, and a permanent magnet are wrapped in paper and a cloth bag, and the final stage of the can exit is carried out with a wooden plug. It was able to trace suiting the purpose of use.

[0005][Function] -- generate an electrode, a magnetic pole, and mineral resources all over sea water, and it is made to react to Lynn in sea water, ammonia, and nitrogen, and becomes a nutrient of a microorganism, and by a photosynthetic activity, the mixture mixed and hardened with the material used by the present invention becomes a nutrient of seaweed, it breeds and water quality purification is carried out. A weak magnetic field is built, and a microorganism and plankton, a fishery product and a shrimp, and a crab are drawn near, and are bred. Adhesion of the one side seaweed and a shellfish is sped up. When a certain fixed stage comes, by corrosion, the steel can inserted in the main part enters in a can, and sea water by chemical action. from the inside of a main part, make it weak and a main part crocodiles in the disintegration of electric corrosion, erosion, cunning, and a microorganism and chemical action, and a deliquescent operation as [with an adhering root / ****] -- erosion -- and solve, separate and fall to the seabed and it is made to root in the seabed, and it increases, and it is made to breed and the chain operation in sea water is helped.

[0006][Example] -- it is the explanation attached to the example of this proposal. Six places are established in a 6th page side at main part outer diameter weight small hole about 5-cm outer

diameter [of about 18 kg] 10.5 cm in length in inside diameter of 5.1 cm. [of about 30 cm] Oil is applied to a mold.

(1) Coal ash, 9 K Coal dust 48 g Gypsum fibrosum, sand, sludge, pottery powder 3500 g Cement 2500 g Steel chip 300 g Aluminum chip 300 g Aluminum powder, 100 g of iron powder A shell, chaff 100 g A salt, water PHs 7 and 8 or PH8, and 2 concentration is used. A proper quantity of water puts in amount of water. About 7 - 8 l. Charcoal, activated carbon The mixture with which 300 g was mixed is built.

(2) Within the bottom part limit, stretch a gummed cloth tape, stand the hole side downward, and insert a mixture in the point of a steel pipe with a 10.5-cm outer diameter [in length] of 5.1 cm, and a bottoming steel can. inserting in until about 2 cm of can heads are flooded -- the mold inside -- bottoming steel can gummed cloth tape tension -- the same thing is horizontally laid down to four plane directions, and is attached and inserted in a mold. A steel can and two aluminum cans with 5 or 1-cm outer diameter the base lid of 5 or 1 cm in length are stood and inserted in a center section. The aluminum powder 10g, 10 g of iron powder, charcoal, the active carbon powder 30g, the magnesium 30g, the quicklime 30g, 6 g of coke breezes, the zinc dust 10g, white phosphorus, 0.1 g, the copper powder 0.1, and about 25g of 0.1g of manganese dioxide permanent magnets insert in, and the direction of a steel can is a thing. The direction of an aluminum can twists rightward the copper wire coil insulated 0.3 mm about 3 cmm from a south pole side, carries out insulating water proof, is taken out about 15 cm out of a can, and covers a permanent magnet outer diameter [of 1 cm] long [about 5 cm of]. At this time, it stretches and waterproofs on a bond and a tape. It connects with the electrode plate of two sheets each. The size of an electrode plate is 3-cm1.5-cm1 mm in thickness in width. [in length] Zinc, aluminum, and a griddle are used for the plus side at the copper plate and brass minus side. This polar plate is inserted in the inside which kneaded 50 g of wheat flour into a stiff dough with water, it opens about 2 cm, an interval is opposed, and a mixture is inserted in.

(3) Double a mold upper half and fix on a tape. In this case, it may bind tight with a bolt. About 8-cm hole is established in the upper part of a mold, a mixture is inserted in, it pokes with a stick, and air is extracted. The bottom of a can is turned down, a can is stood and blended cement is inserted in. On a mold, it covers with a board and an about 5-kg weight is placed.

(4) by natural seasoning, it carries out for one week, a mold is removed, and the hole gummed cloth tape of a steel pipe is taken, and the charcoal 30g, the activated carbon 30g, the aluminum powder 10g, 10 g of iron powder, the zinc dust 10g, and permanent magnet abbreviation 2-cm width in length 1.cm are inserted in into it, and it wraps in paper and a cloth bag, it inserts in in a pipe, and pushes in with a stick -- insert in. Cloth is wound around a wooden plug for an exit, and it covers. The steel can which overflowed the main part is shaved off.

(5) Remove a mold, dry for one week and complete.

[0007][EFFECT OF THE INVENTION] By this invention, all over sea water, an electrode, a magnetic pole, and mineral resources are generated, and a microorganism and plankton, a fishery product and a shrimp, and a crab are drawn near. A main part reacts to Lynn in sea water, nitrogen, and ammonia, and it becomes a nutrient of a microorganism and plankton, and adhesion of seaweed is brought forward, and it is made a nutrient, and is made to breed and increase by a photosynthetic activity. When a certain fixed stage comes, it separates and falls in electric corrosion, erosion, cunning, chemicals, and a deliquescence operation, rooted seaweed and a shellfish, and is made to root in the seabed. Sea water is purified and the food chain in sea water is helped.

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(54)【発明の名称】魚礁に変わる海底改良剤マリンアース

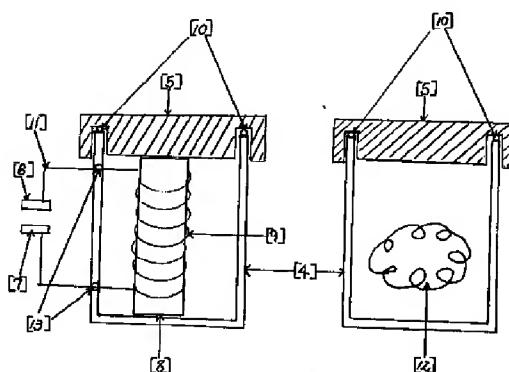
(57)【要約】 (修正有)

【目的】海草、貝の付着を早め海草を繁殖させて、ある一定時期がくると、海草、貝が根付いたまま剥がれ落ちて、海底に根付かせる。

【構成】石炭灰、石炭粉、石膏、セメント、スチールチップ、アルミチップ、アルミ粉、鉄粉、木炭、活性炭、木屑、塩、水を嵌めた混ぜた混合物12を造る。型枠内に、鋼管及び丸棒を嵌めて骨組みを造る。その時磁石8を、丸棒に、針金でくくり付ける。(1m以上の場合のみ使用)鋼管及びスチール缶の先に、テープを張る。その中に混合物12を嵌め、本体中央部に、蓋付きスチール缶及びアルミ缶4を嵌め缶内部に、アルミ粉、鉄粉、炭、マグネシウム、黄リン、銅粉、二酸化マンガン、生石灰、コークス粉、亜鉛粉、を嵌めて蓋をする。別の缶内に永久磁石8に、コイル9を巻き付け蓋をし、絶縁防水して、缶外に出し、電極板6、7に接続する。

本体中心部内に、嵌めたスチール缶及びアルミ缶断面図である。
また、缶内に嵌めた永久磁石にコイルを巻き付け、線を缶の外に、取り出し電極板を取り付けた断面図及び、アルミ粉及び混合物を嵌めた缶、断面図である。

【正面、断面図】



【特許請求の範囲】

【請求項1】(1) 水深及び地形、地質、潮流、水深、水圧、水質に応じて形状の大小及び材質の調整ができる。

(2) 本体の強度も、中に嵌める材質で調整できる。

(3) 本体外側中心部寄り、縦、横、左右斜め方向に、鋼管及びスチール缶、アルミ缶で小穴をもうける。

(4) 小穴にアルミ粉、鉄粉、炭、活性炭粉(タイヤ、ポリエチレンを蒸し焼きした物)を紙及び木綿袋に詰めて、永久磁石を嵌め木栓をする。

(5) 本体内中央部に、スチール、及びアルミ缶内に、アルミ粉、炭粉、マグネシウム、黄リン、銅粉、二酸化マンガン、生石灰、鉄粉、コークス粉、亜鉛粉、永久磁石を嵌めて蓋をし防水テープ及びボンド、溶接、ハンダする。

(6) また、別の缶にスチール缶及びアルミ缶内に、永久磁石に絶縁銅線コイルを巻き付け絶縁防水して缶の外側に電極を取り出し、その端に、銅板及び真鍮板に、取り付ける。もう一方は、鉄板、アルミ板、亜鉛板に、接続する。

また、小麦粉を水で、練り固めた中に、極板を包み込む。

(7) 本体1メートル以上の場合内部に、鉄筋と永久磁石を針金でくくり、骨組みを組む。

(8) 石炭灰、石炭粉、石膏、セメント、スチールチップ、アルミチップ、アルミ粉、鉄粉、木炭、活性炭、木屑、貝殻、砂、汚泥、陶磁器粉、粉殻、塩、水、で混ぜ固める。

(9) 通常は円型状の6面を平面とし、小穴は、各面9個。50cm以下の場合6面小穴の内径5cmとする。地形、地質、水質、水深、水圧、潮流応じて、材質及び外形を正方形、円形に、小穴の数及び大きさも変化させる。

以上のこととを特徴とする。魚礁に変わる海底改良剤マリニアース

【発明の詳細な説明】

【0001】[産業上の利用分野] この発明は、産業廃棄物及び一般家庭のゴミを有効利用し資源として、活用し一般家庭及び企業の汚水中のリン、窒素、アンモニアを浄化して、赤潮を防ぐ。また、海水中に弱い電極と、磁極及び鉱物資源を発生させて、弱い磁場を造り微生物(バクテリア)を引き寄せて、繁殖を活発にし光合成作用で、海草を早く繁殖及び増殖させ、海草の栄養分になり、プランクトン魚貝類及び、海老、蟹を引き寄せ繁殖させる。また、海草及び貝類の付着を早める。ある一定時期がくると、海草、貝が根付いた間々、電食、侵食、狡猾、微生物分解作用及び、化学作用、潮解性作用で、本体を脆くしひび割れ侵食及び化学反応し解けて、海底に、剥がれ落ちて海底に、根付かせ増やし魚を引き寄せて、繁殖させる。尚海水を浄化及び活性化、赤潮防止す

る。設置積み重ねが簡単で、海水中に入ると脆くなり、漁網の破損も少ない。海水中の食物連鎖作用の手助けをする。

【0002】[従来の技術] 従来の技術は、海草及び魚貝類が付着し憎く、また魚礁と仕手の役目も短く、コストも高く付き、いつまでも残り漁網の破損、設置及び積み重ねに手間暇かけていた。また、大量に、使用すると海の汚染の原因の一つと、されていた。

【0003】[発明が解決しようとする課題] 本発明者は、その欠点をなくして、製造コスト安く作業を簡単にする。また海水中に鉱物資源及び電極、磁極を発生させて、微生物及びプランクトンを引き寄せて、海草を早く付着させて、光合成作用で繁殖増殖させ、海草、魚貝類を、付着させて、狡猾、侵食、電食、化学作用で本体を脆くして、海草及び魚貝類を根付いたまま、剥がれ落ちて、海底に根付かせる。本体は、海水を浄化して、赤潮を防止して、海水中の食物連鎖作用の手助けをし、本体は自然に戻る特徴である。

【0004】[課題を解決するための手段] その結果、20 石炭粉、石炭灰、石膏、セメント、スチールチップ、アルミチップアルミ粉、鉄粉、木炭、活性炭(タイヤ、ポリエチレンを蒸し焼き粉にした物)木屑、貝殻、砂、汚泥、粉殻、塩、水で混ぜ混合物を造る。また、本体1m以上の場合は、本体中に、骨組みを造る。鋼管及び丸棒を嵌めて、永久磁石を針金でくくり付ける。本体中央部に、底蓋付きスチール缶及びアルミ缶内に、アルミ粉、炭粉、マグネシウム、生石灰、鉄粉、コークス粉、亜鉛粉、黄リン、銅粉、二酸化マンガン、永久磁石を嵌め蓋をして、防水する。また、別の缶内に磁石に絶縁銅線コイルを巻き付けて、絶縁防水して、蓋をし缶の外側に電極線を取り出し、銅板及び真鍮板に接続する。もう一方には、鉄板、アルミ、亜鉛板に接続する。極板を、小麦粉を水で練り固めた中に嵌め込む。本体中央部及び、縦横、左右斜め方向に、小穴を設けて、その中にアルミ粉、鉄粉、木炭、亜鉛粉、永久磁石を紙及び布袋で包み込み缶出口を、木栓で詰めする。使用目的にあうこと、突き止める事ができた。

【0005】[作用] 本発明で使用される材料で、混ぜ固めた混合物は、海水中に電極と磁極及び鉱物資源を発生させて、海水中のリン、アンモニア、窒素と反応させ微生物の栄養分になり、光合成作用で、海草の栄養分になり、繁殖し水質浄化する。また、弱い磁場を造り微生物及びプランクトン、魚貝類及び海老、蟹を引き寄せて、繁殖させる。その一方海草、貝の付着を速める。また、ある一定時期がくると、本体に嵌めたスチール缶が腐食で海水が缶内に入り、化学作用で、本体内部より脆くし、付着根付いたまま、電食、侵食、狡猾、微生物の分解作用及び化学作用、潮解性作用で、本体がひび割れ侵食及び解けて、海底に剥がれ落ちて、海底に根付かせて、増やし繁殖させ海水中の連鎖作用の手助けをする。

【0006】[実施例] 本案の実施例に付いての説明である。本体外径約30cm重量約18kg小穴内径約5cm外径5.1cm長さ10.5cmで6面側に6個所設ける。型枠に、オイルを塗る。

(1) 石炭灰、9キロ 石炭粉 48グラム 石膏、砂、汚泥、陶磁器粉 3500グラム セメント 2500グラム スチールチップ 300グラム アルミチップ 300グラム アルミ粉、鉄粉100グラム 貝殻、粉殻 100グラム 塩、水PH7, 8ないしPH8, 2濃度にする。水は適量水量を入れる。約7-8リットル。木炭、活性炭 300グラムを混ぜた混合物を造る。

(2) 下型枠内に、長さ10.5cm外径5.1cmの鋼管及び底付きスチール缶の先に、ガムテープを張り穴側を下に立て、混合物を嵌める。缶頭部約2cmかかるまで嵌め、型枠内側に、底付きスチール缶ガムテープ張り同じ物を、4面方向に横に寝かし型枠に付けて嵌める。また、中央部に、長さ5.1cm外径5.1cm底蓋付きのスチール缶及びアルミ缶を2個立てて嵌める。

スチール缶の方は、アルミ粉10g、鉄粉10g、炭、活性炭粉30g、マグネシウム30g、生石灰30g、コークス粉6g、亜鉛粉10g、黄リン、0.1g、銅粉0.1、二酸化マンガン0.1g永久磁石約2.5g嵌め物。アルミ缶の方は、外径1cm高さ約5cmの永久磁石に、0.3mm絶縁した銅線コイルをS極側から右方向に約3cm巻き付け、絶縁防水して、缶外に約1.5cm取り出し、蓋をする。この時、ボンド及びテープで張り、防水する。各2枚の電極板に接続。電極板のサイズは、長さ3cm幅1.5cm厚み1mm。プラス側に、銅板、真鍮マイナス側に亜鉛、アルミ、鉄板を使用する。この極板を小麦粉50gを水で練り固めた中に嵌め込み、間隔を約2cmあけて向かい合わせて、混合物を嵌める。

(3) 型枠上半分を合わせて、テープで固定する。この場合ボルトで締め付けても良い。型枠の上部に、約8cmの穴を設け混合物を嵌め棒でつつき、空気を抜く。缶の底を下にして缶を立てて、混合セメントを、嵌める。

型枠の上に、板を敷き、約5kg重しを置く。

(4) 自然乾燥で、1週間して型枠を外し鋼管の穴ガムテープを取り、その中に木炭30g、活性炭30g、アルミ粉10g、鉄粉10g、亜鉛粉10g、永久磁石約長さ2cm幅1.1cmを嵌め紙及び布袋で包み管内に嵌めて、棒で押し込む嵌める。出口を木栓に布を巻いて蓋をする。また、本体からはみ出たスチール缶は、削り取る。

(5) 型枠を外して、1週間乾かし完成する。

10 【0007】[効果] この発明により、海水中に電極と磁極及び鉱物資源を発生させて、微生物及びプランクトン、魚貝類及び海老、蟹、を引き寄せる。また、海水中のリン、窒素、アンモニアと本体が反応して、微生物及びプランクトンの栄養分になり、海草の付着を早めて栄養分にして、光合成作用で、繁殖及び増殖させる。ある一定時期がくると、電食、侵食、狡猾、化学、潮解作用で、海草及び貝を根付いたまま剥がれ落ちて、海底に根付かせる。また、海水を浄化し、海水中の食物連鎖の手伝いをする。

20 【図面の簡単な説明】

【図1】本考案の請求項1正面図である。

【図2】本考案の請求項1平面図、断面図である。

【図3】本考案の請求項1正面、断面図である。

【符号の説明】

(1) 円形 (8)

永久磁石S極側

(2) 平面 (9)

銅線絶縁コイル

(3) 鋼管及びスチール缶 (10)

30 防水パッキン

(4) 防水蓋底付きスチール缶、及びアルミ缶 (11)

絶縁防水接続線

(5) 蓋 (12)

アルミ粉、及び混合物

(6) 電極板、銅板、真鍮板 (13)

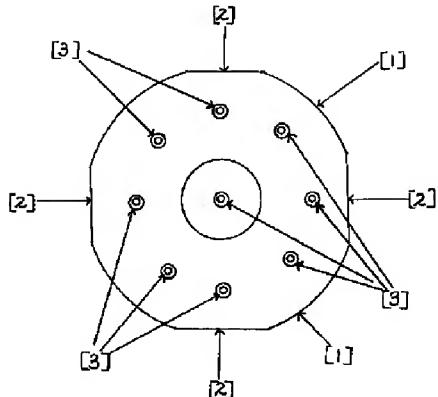
絶縁防水パッキン

(7) 電極板、亜鉛、アルミ、鉄板

【図1】

円形状の8面を、平面として本体の正面図で、平面図、底面図、背面図、
左横面図と同一である。

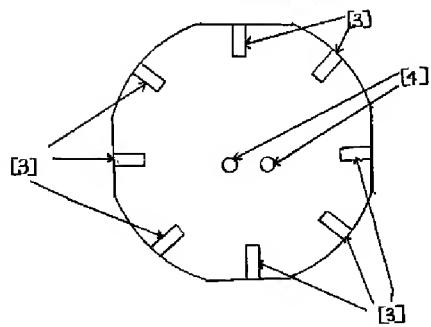
【正面図】



【図2】

本体平面断面図。

【平面、断面図】



【図3】

本体中心部内に、嵌めたスチール缶及びアルミ缶断面図である。
また、缶内に嵌めた永久磁石をコイルを巻き付け、線を缶の外に、取り出
し電極板を取り付けた断面図及び、アルミ粉及び混合物を嵌めた缶、断
面図である。

【正面、断面図】

